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## CLAIMS

- 1. High voltage resistance, characterized in that it comprises at least one support (21) and a flat conductor (22) with length L, width  $\ell$  and thickness e fixed to the support and with a given resistivity  $\rho$ , the value R of the resistance being equal to  $\rho L/\ell$  e, the values of the length L, width  $\ell$  and the thickness e being defined such that the mass of the flat conductor (22) is sufficient to resist electrical arcing without exceeding a given temperature.
- 2. Resistance according to claim 1, characterized in that said support (21) is an organic substrate.
  - 3. Resistance according to claim 1, characterized in that said conductor (22) is fixed to the support by means of an organic glue.
  - 4. Resistance according to any one of the previous claims, characterized in that said flat conductor (22) is in the shape of a coil.
- 5. Resistance according to claim 4, characterized in that said flat conductor (22) comprises parallel straight segments (23, 24).
  - 6. Resistance according to any one of the previous claims, characterized in that said flat conductor (22) comprises a nickel alloy.
- 7. Resistance according to any one of the previous claims, characterized in that said flat conductor (22) is covered by an insulating layer (32).
  - 8. Resistance according to claim 7, characterized in that said insulating layer is an organic substrate.
  - 9. Resistance according to claim 2 and any one of claims 4 to 8, characterized in that said organic substrate is fixed to a ceramic support (34).
    - 10. Resistance according to claim 2 and any one of claims 4 to 8, characterized in that said resistance is folded on itself.

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- 11. Resistance according to claim 10, characterized in that said organic substrate is fixed on the two sides of a ceramic support.
- 12. Resistance according to any one of the previous claims, characterized in that it comprises connection wires, the ends of which are soldered onto connection strips (25, 26) of said flat conductor (22).
- 13. Resistance according to any one of the previous claims, characterized in that it is fixed to the bottom of a ceramic casing (61).
- 14. Resistance according to claim 13, characterized in that said resistance is protected by a resin poured in said casing.
- 10 15. Microwave tube emitter, characterized in that it is equipped with one or several limitation resistances according to any one of the previous claims.
  - 16. Emitter according to claim 15, characterized in that said resistance(s) is (are) wired onto the cathode of the tube grid.
- 15 17. Emitter according to claim 15, characterized in that said resistance(s) is(are) wired onto the tube collector.